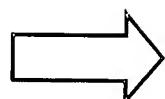
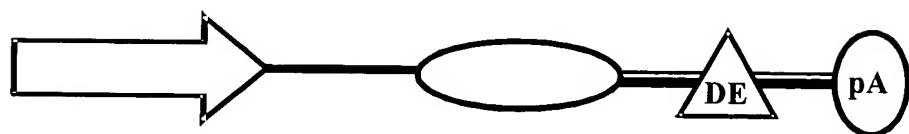


Figure 1

Expression Vectors Encoding a Destabilised mRNA



Any promoter or promoter element



Protein or polypeptide encoding region



mRNA destabilising element



Polyadenylation signal



5'-untranslated region (5'-UTR)



3'-untranslated region (3'-UTR)

Figure 2

Transcription Reporter Vectors

Fig. 2a. Vector Series 2



Fig. 2b. Vector Series 3

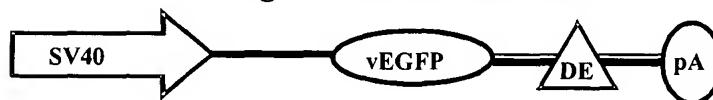
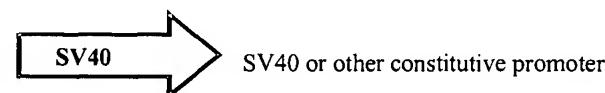


Fig. 2c. Vector Series 4



TRE Tetracycline Responsive Element

mCMV Minimal Cytomegalovirus (CMV) promoter

vEGFP Region encoding any variant of enhanced green fluorescent protein (EGFP). Each vector in the series encodes a different variant.

MCS Multiple Cloning Site (any site useful for inserting DNA fragments)

pA Polyadenylation signal

— 5'-untranslated region (5'-UTR)

— — 3'-untranslated region (3'-UTR)

DE mRNA destabilising element

Figure 3
Bi-directional Transcription Reporter Vectors

Fig. 3a. Vector Series 5

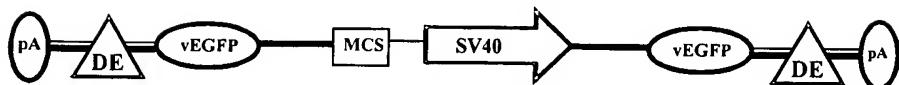
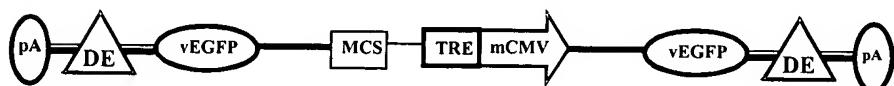


Fig. 3b. Vector Series 6



- SV4** → SV40 or other constitutive
- TRE** → Tetracycline Responsive
- mCMV** → Minimal Cytomegalovirus (CMV)
- vEGFP** → Region encoding anyenhanced green fluorescent protein
Each vector in the series encodes a
- MCS** → Multiple Cloning Site (any site useful for inserting)
- pA** → Polyadenylation
- → 5'-untranslated region (5'-)
- → 3'-untranslated region (3'-)
- DE** → mRNA destabilising
- → Spacer region to separate promoters. Can contain additional polyadenylation signals.

Figure 4

Reporter Vectors For Studying Post-transcriptional Regulation

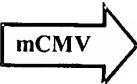
Fig. 4a. Vector Series 7



Fig. 4b. Vector Series 8



Tetracycline Responsive Element



Minimal Cytomegalovirus (CMV) promoter



Region encoding any variant of enhanced green fluorescent protein (EGFP)
Each vector in the series encodes a different variant.



Multiple Cloning Site (any site useful for inserting DNA fragments)



Polyadenylation signal



5'-untranslated region (5'-UTR)



3'-untranslated region (3'-UTR)

Figure 5

Evidence For Errors Associated with Co-transfection in Luciferase-based

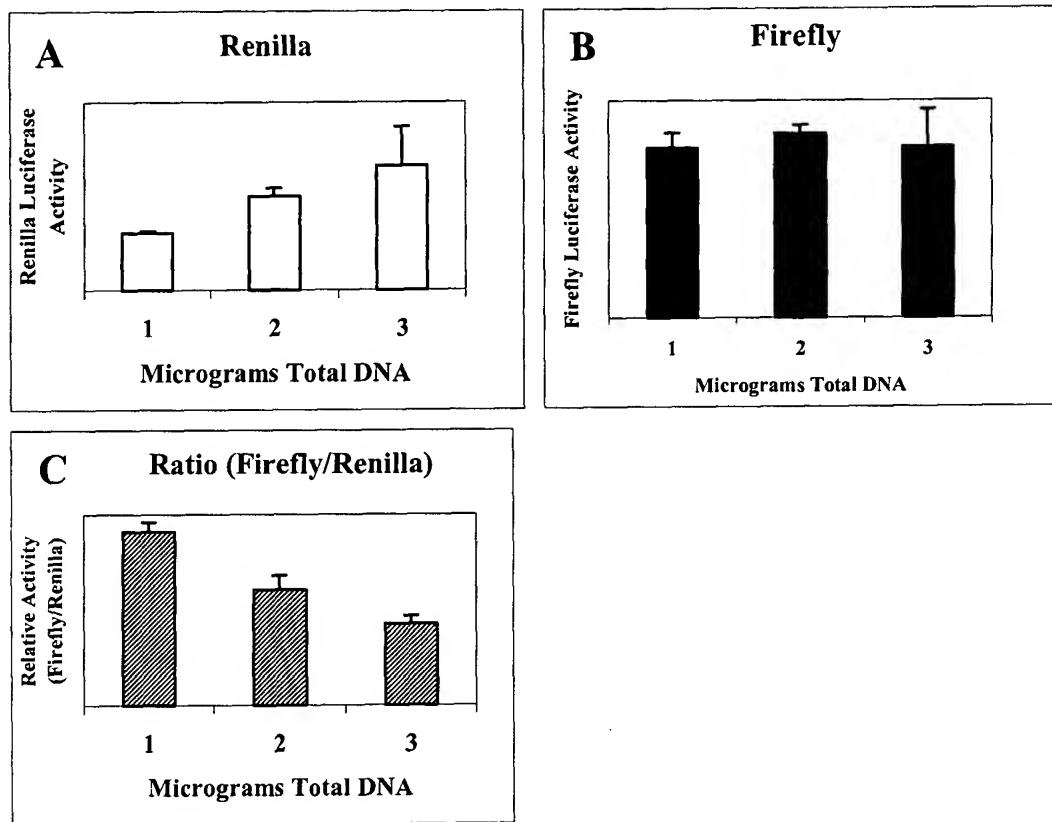
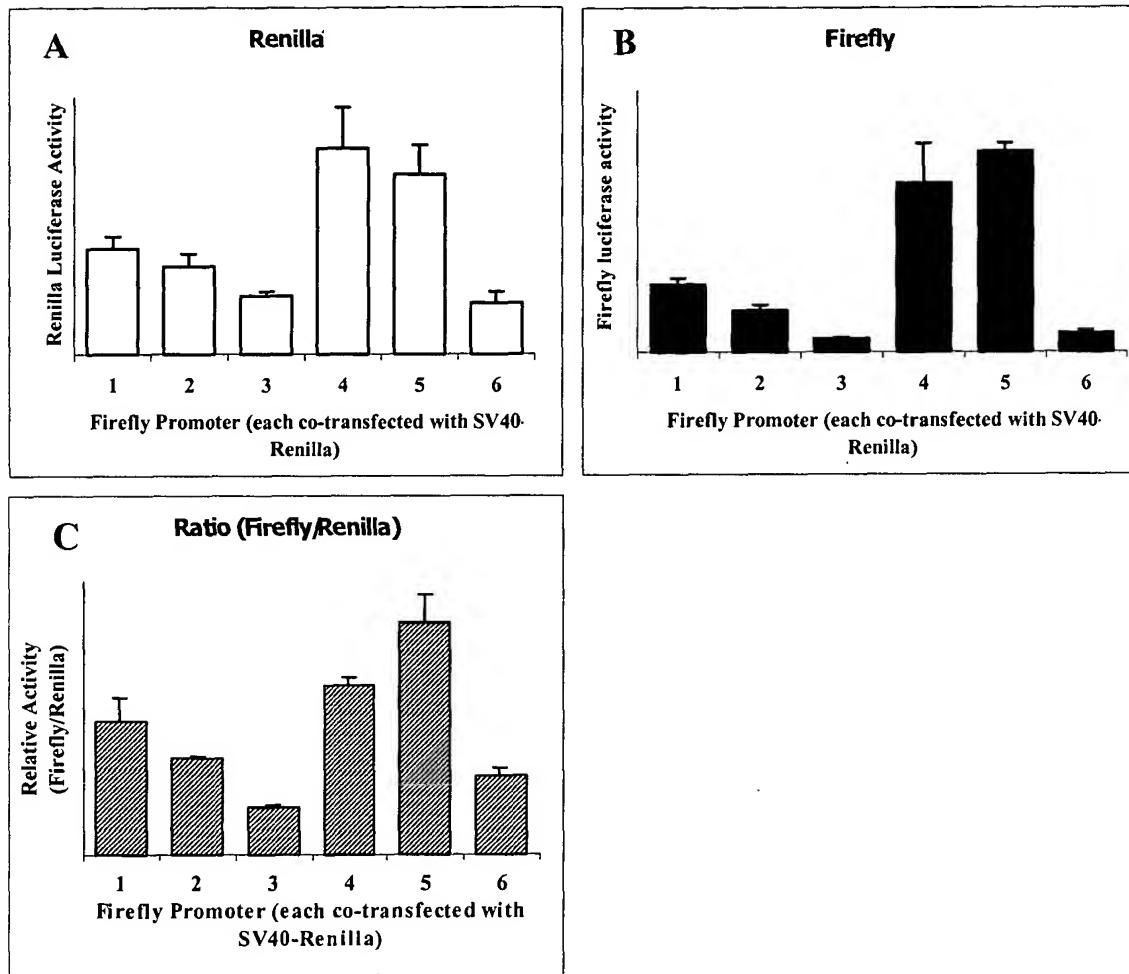


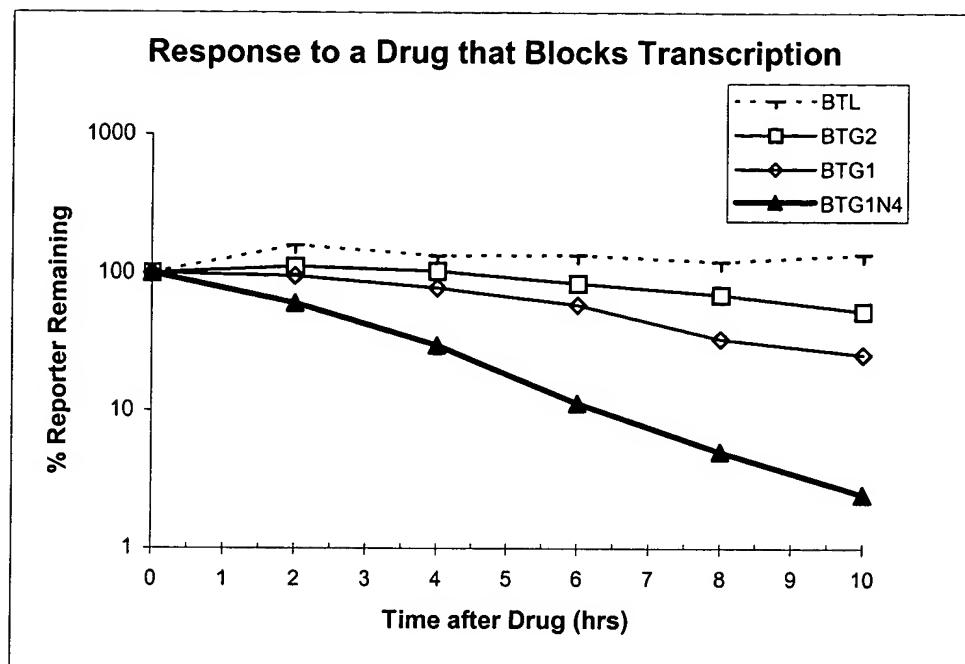
Figure 6

Evidence For Errors Associated with Dual Luciferase Assay.



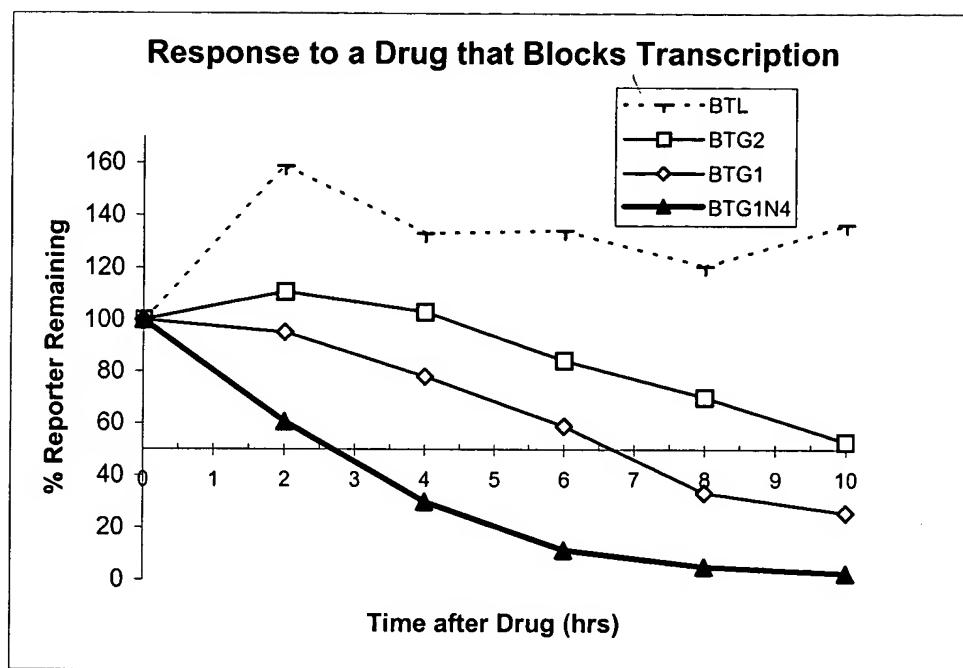
7/24

Figure 7



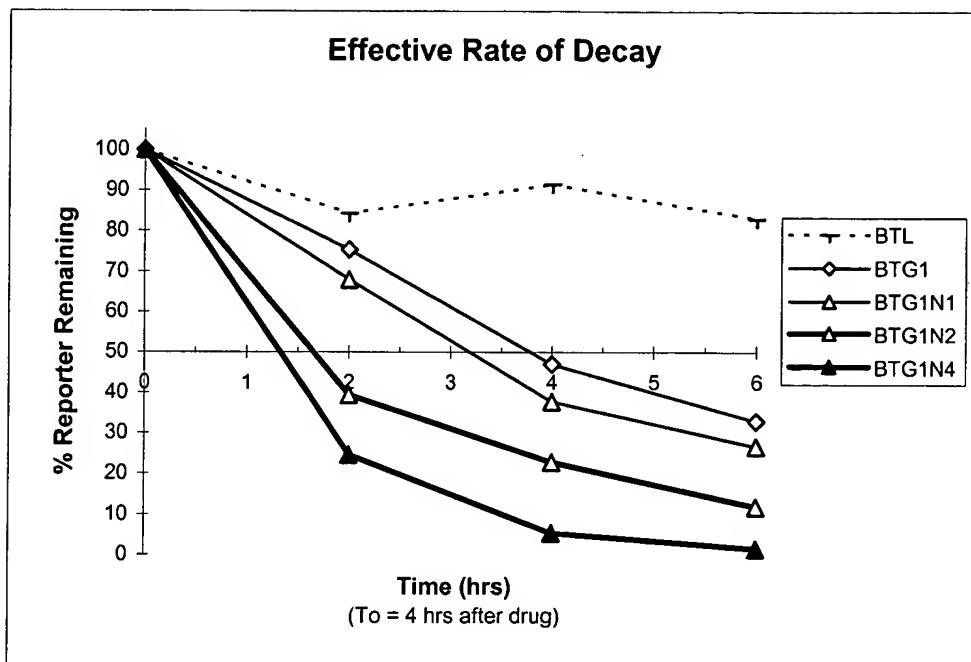
8/24

Figure 8



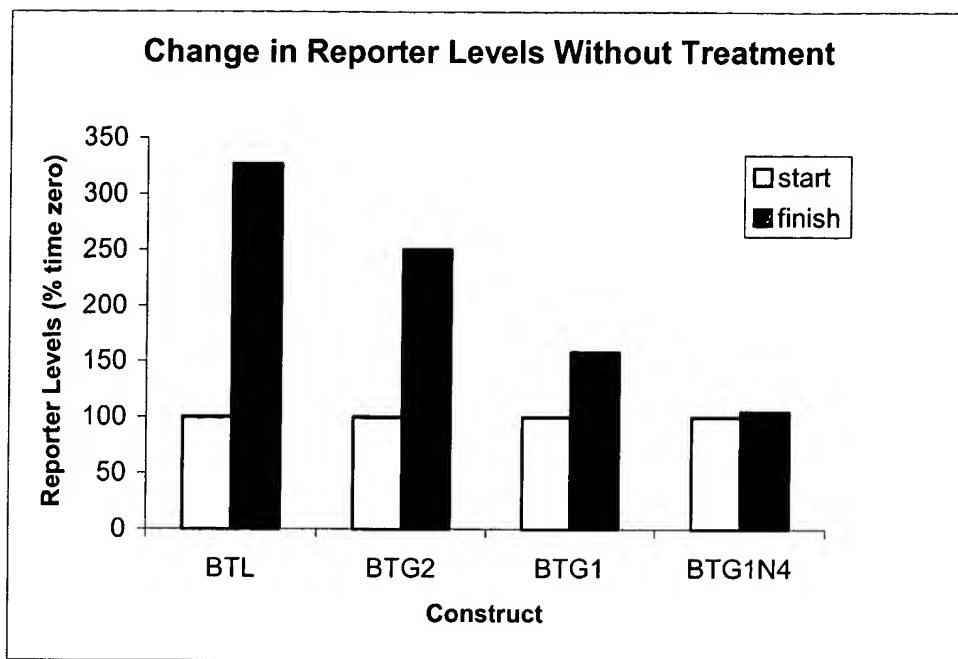
9/24

Figure 9



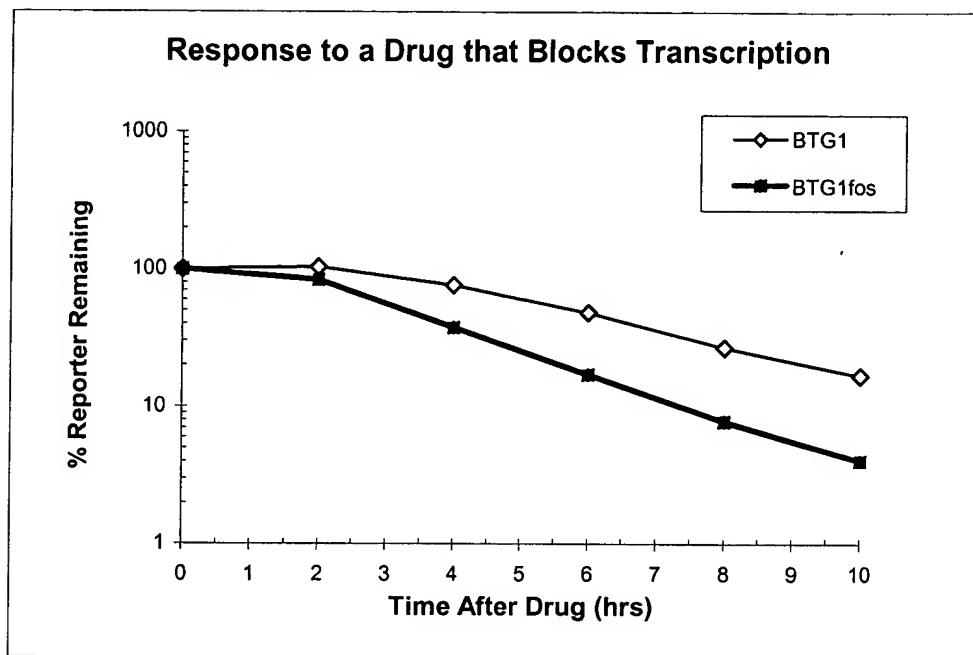
10/24

Figure 10



11/24

Figure 11



12/24

Figure 12

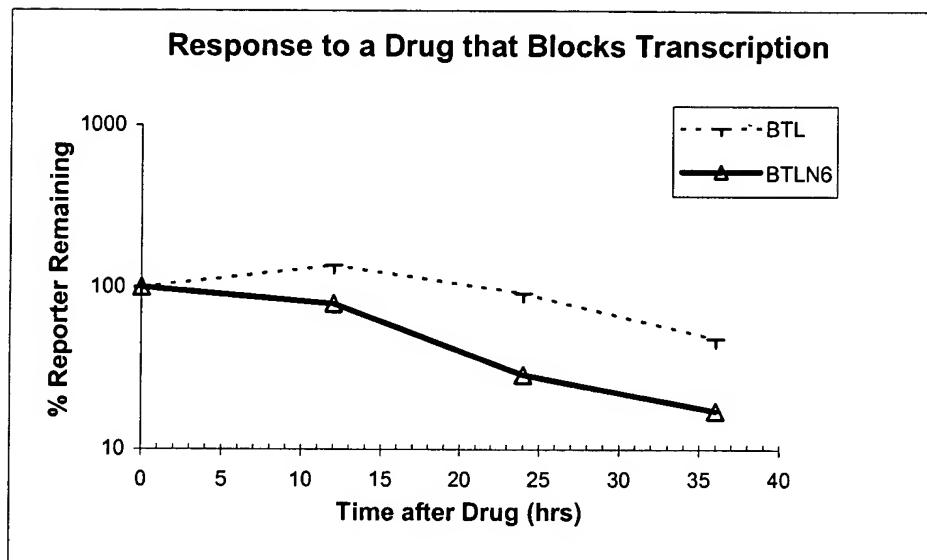


Figure 13

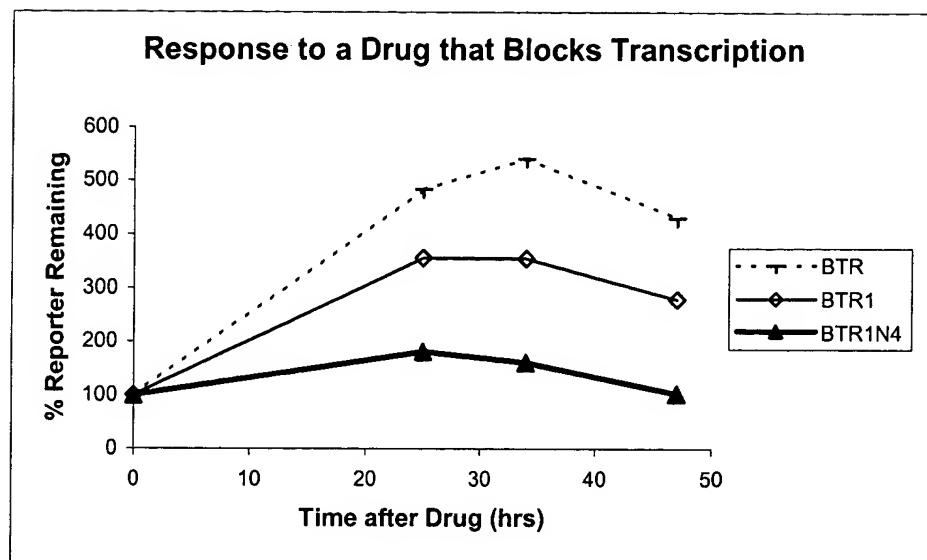


Figure 14

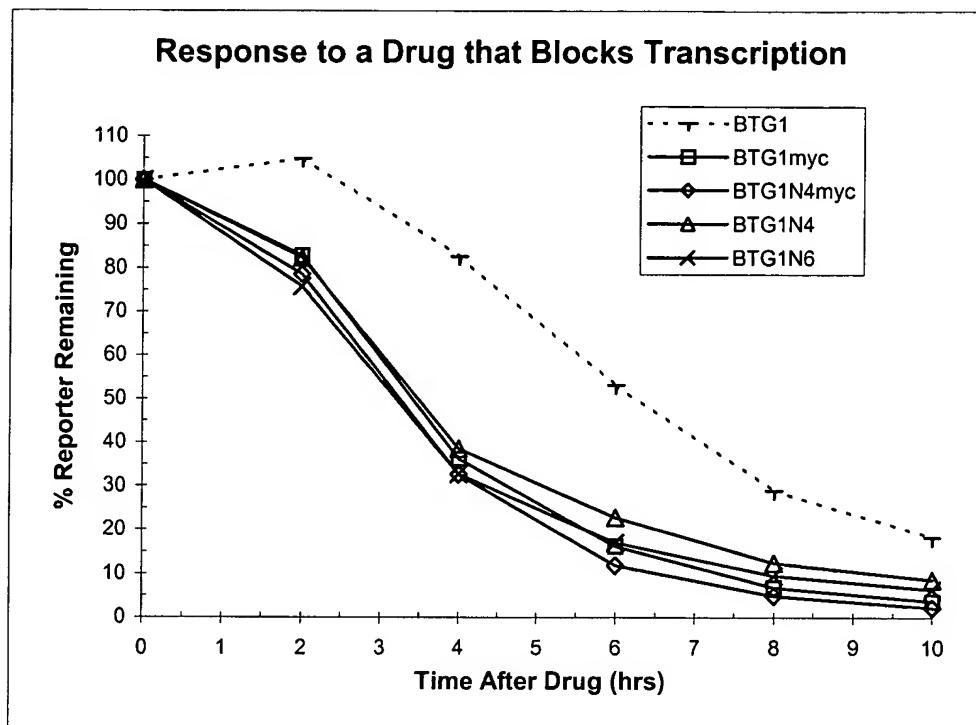


Figure 15

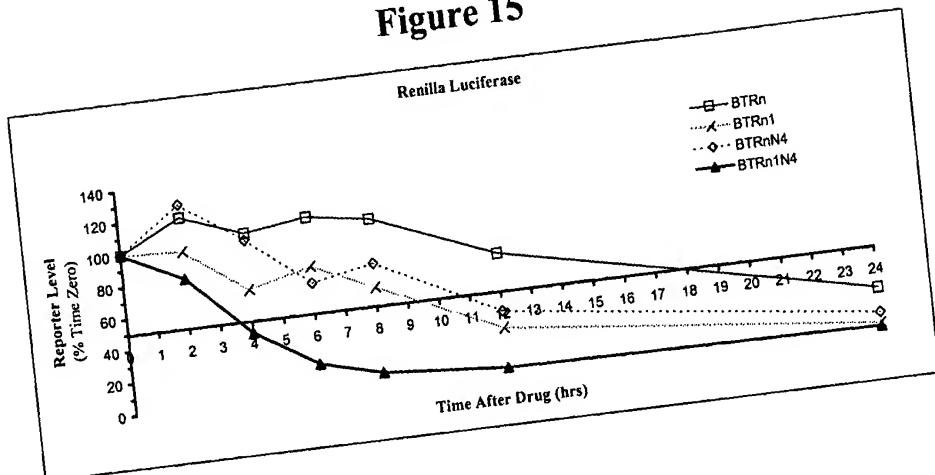


Figure 16

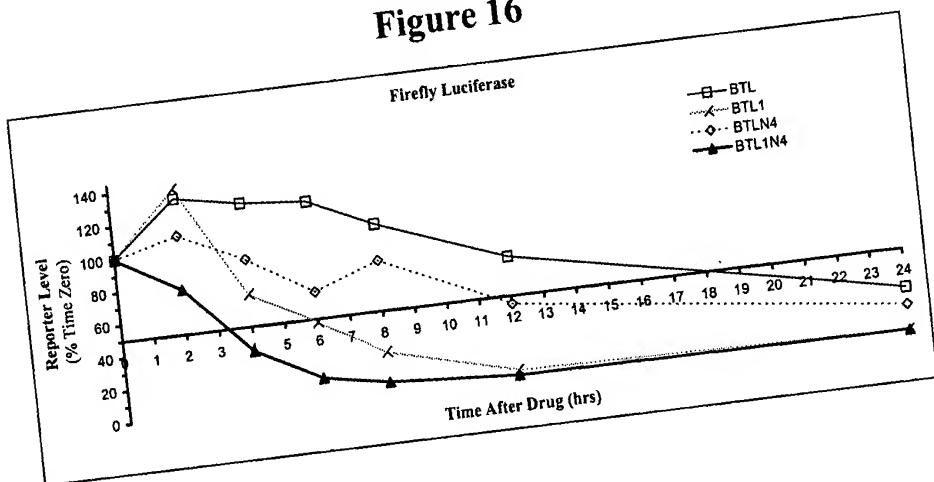
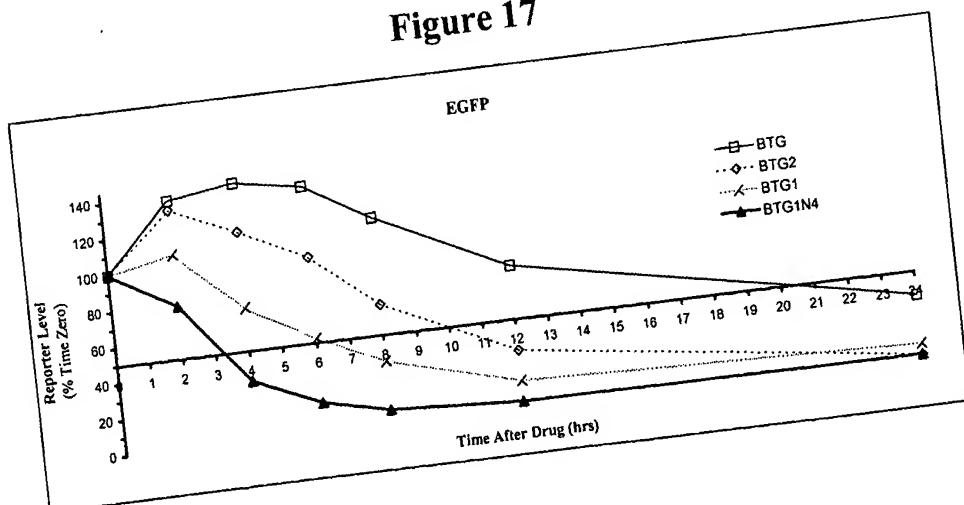


Figure 17



16/24

Figure 18

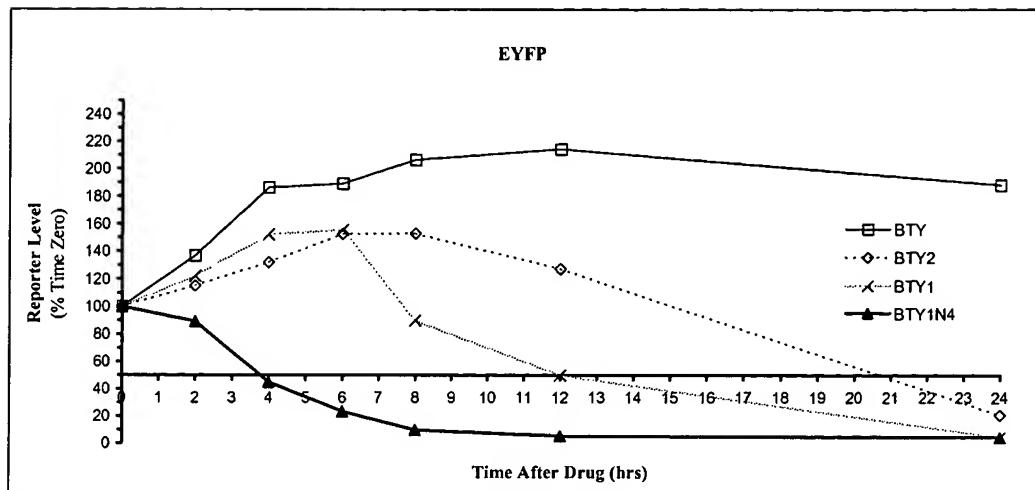


Figure 19

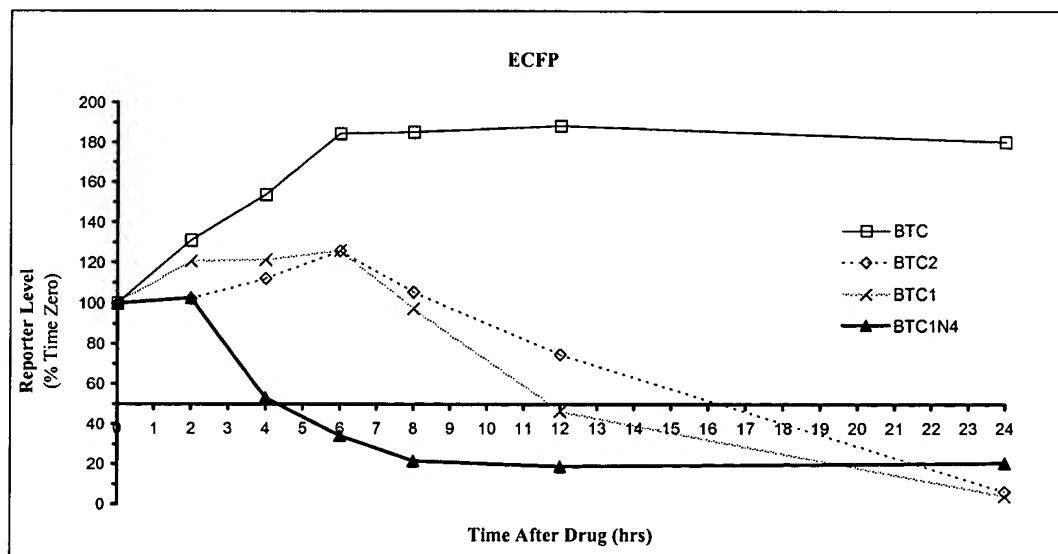


Figure 20

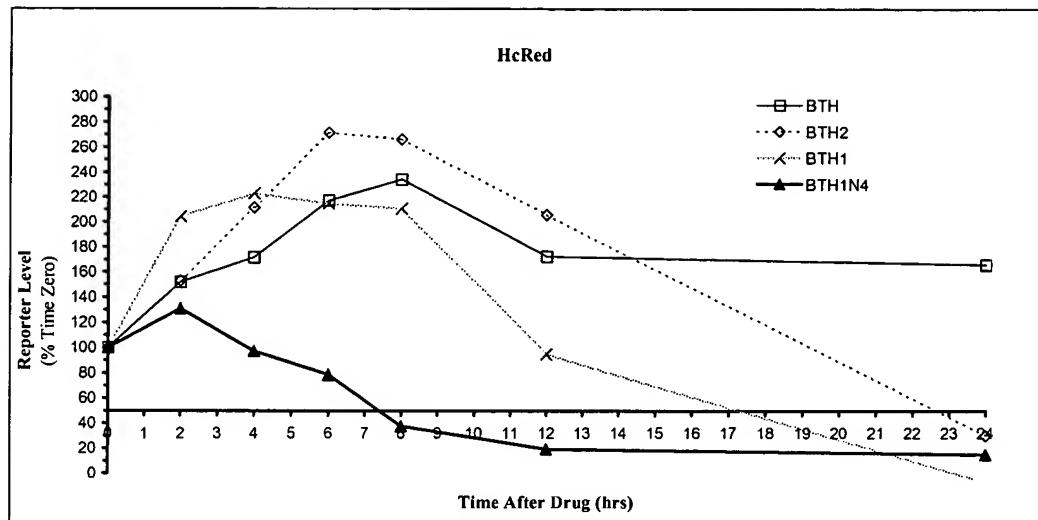


Figure 21

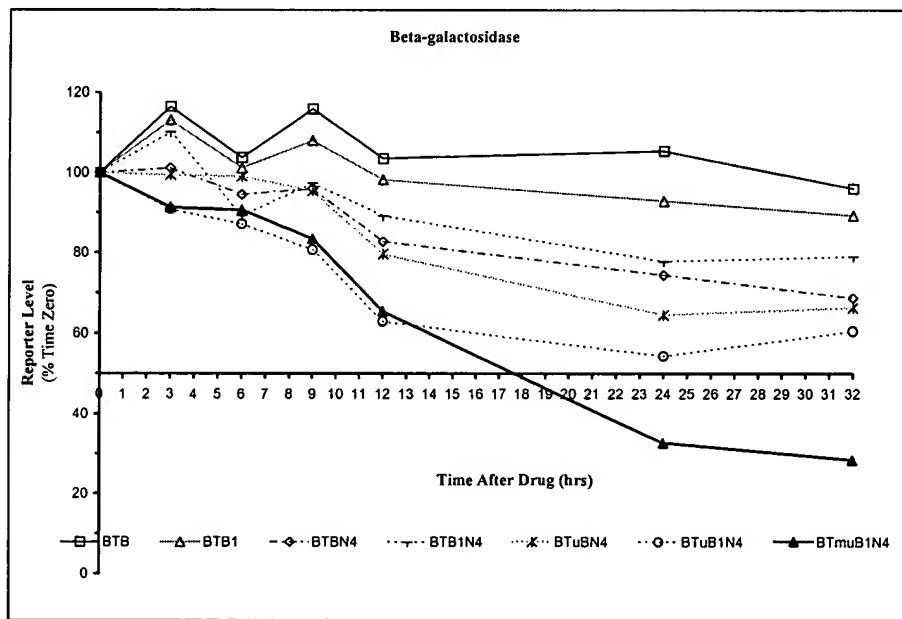


Figure 22 A

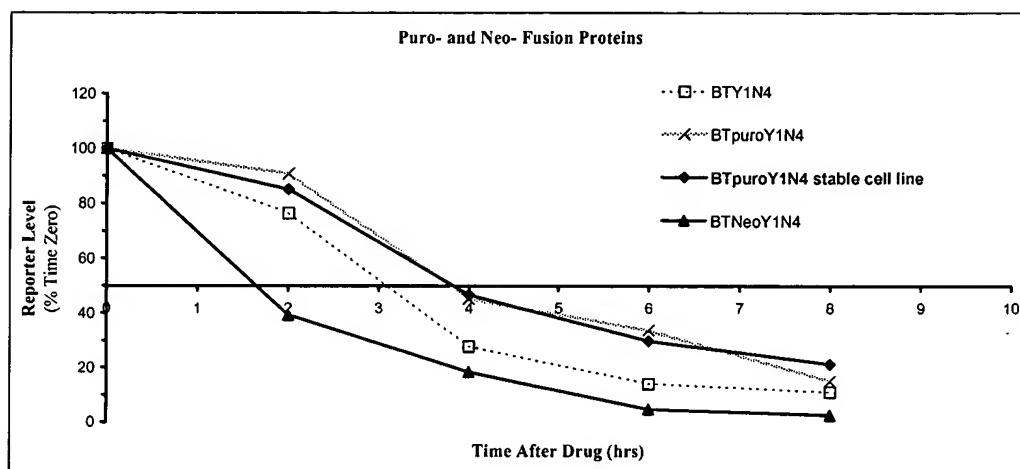


Figure 22 B

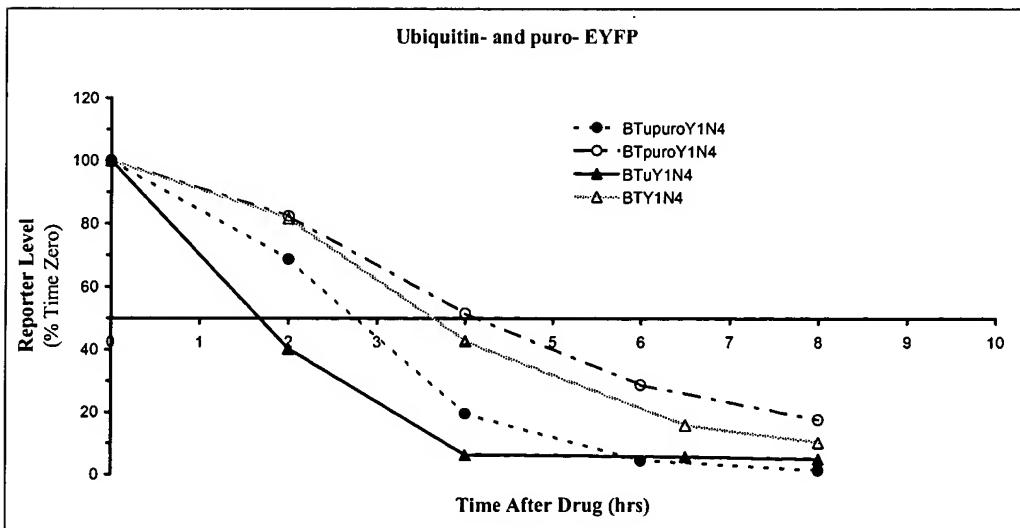


Figure 23 A

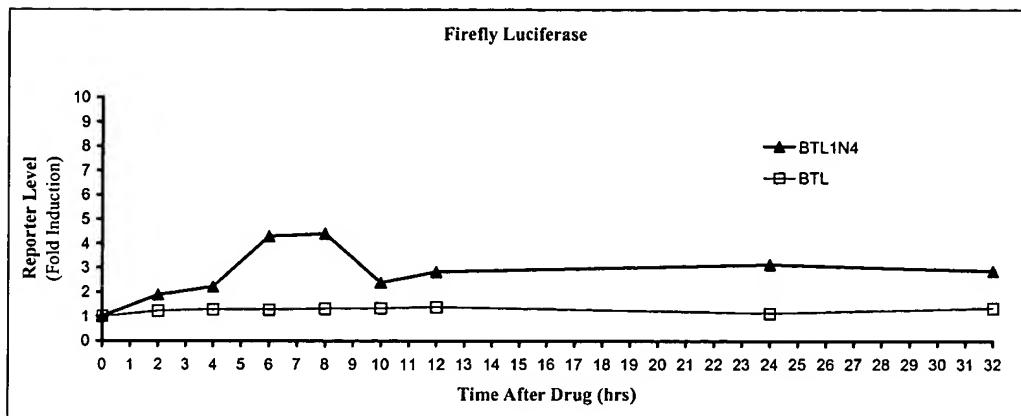


Figure 23 B

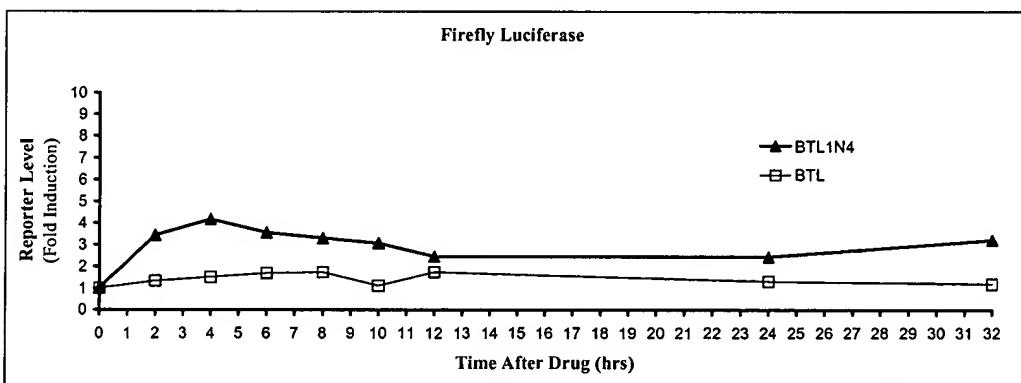


Figure 24 A

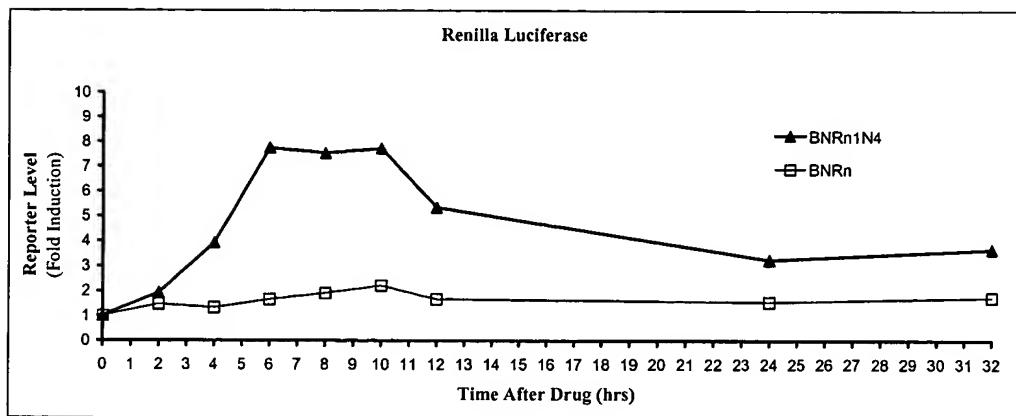


Figure 24 B

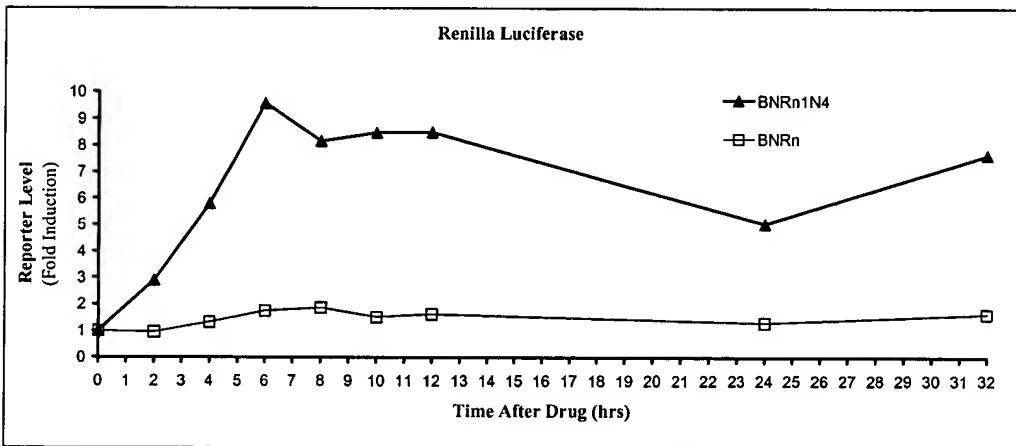


Figure 25 A

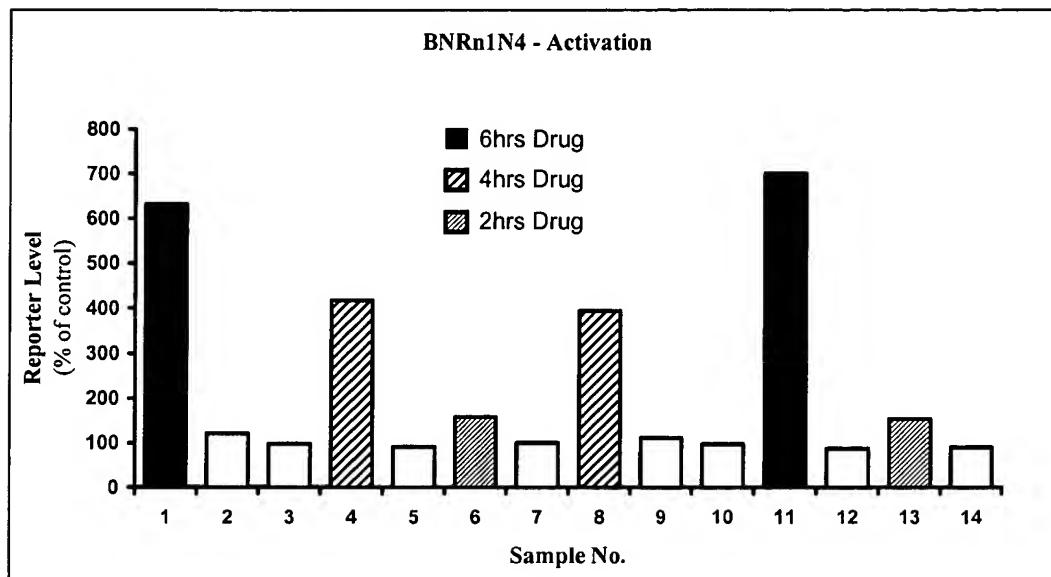


Figure 25 B

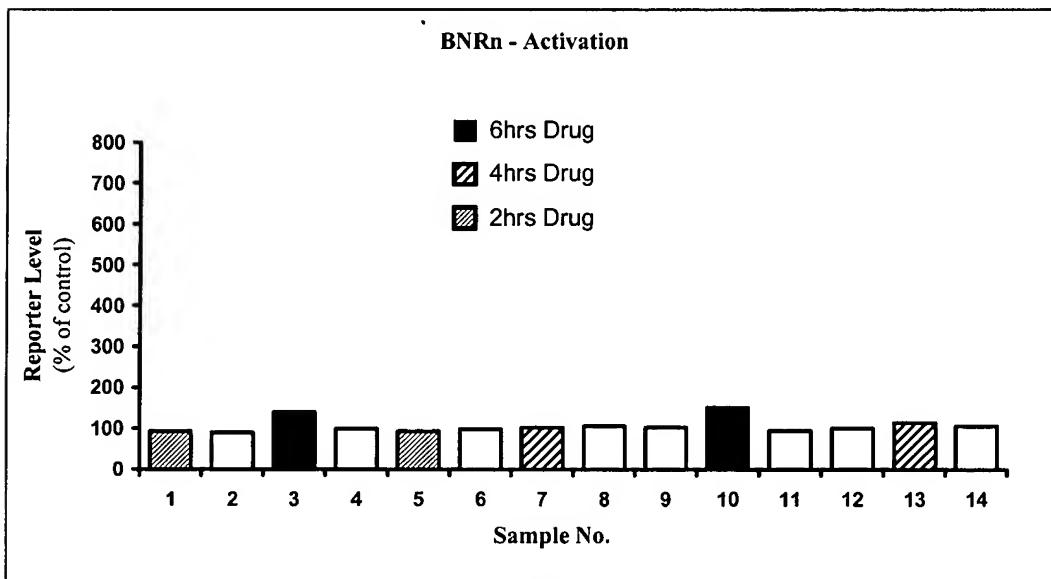


Figure 26 A

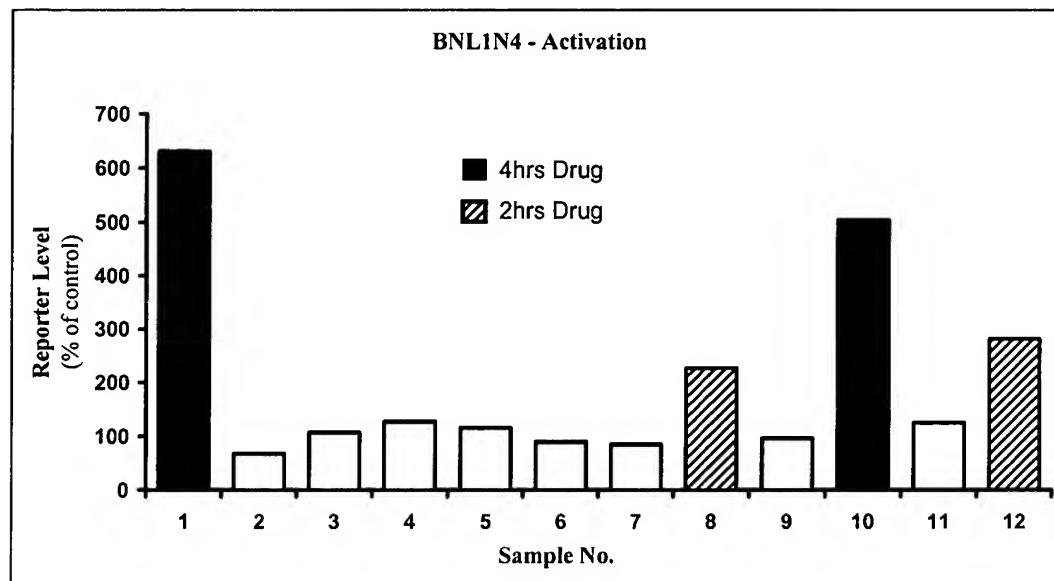


Figure 26 B

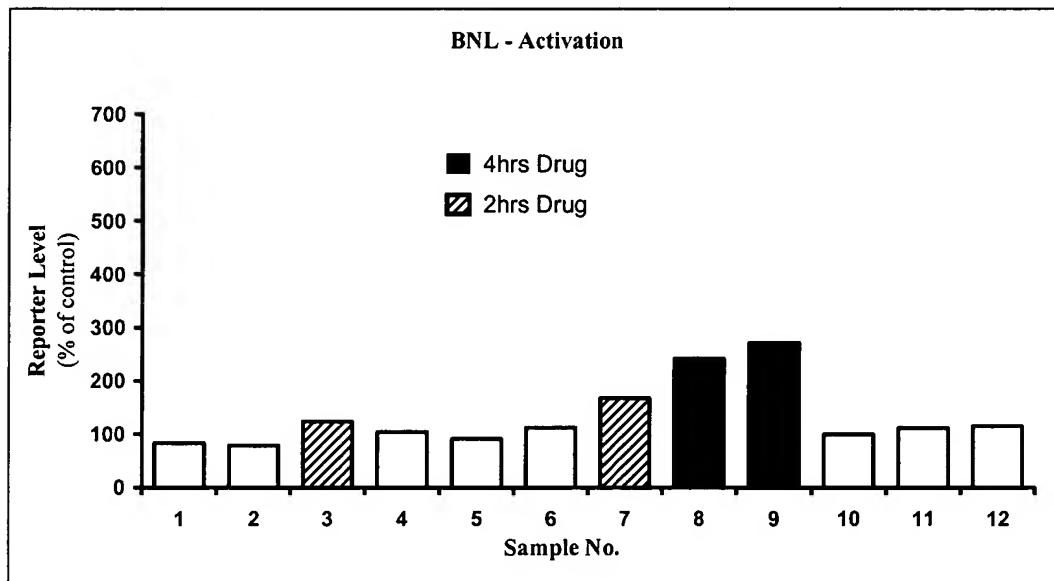


Figure 27 A

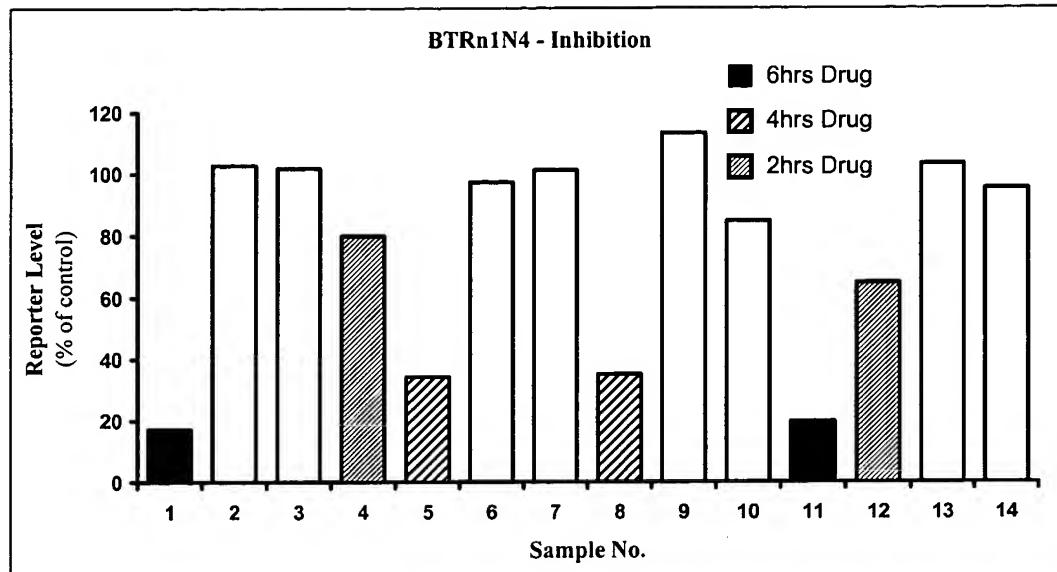


Figure 27 B

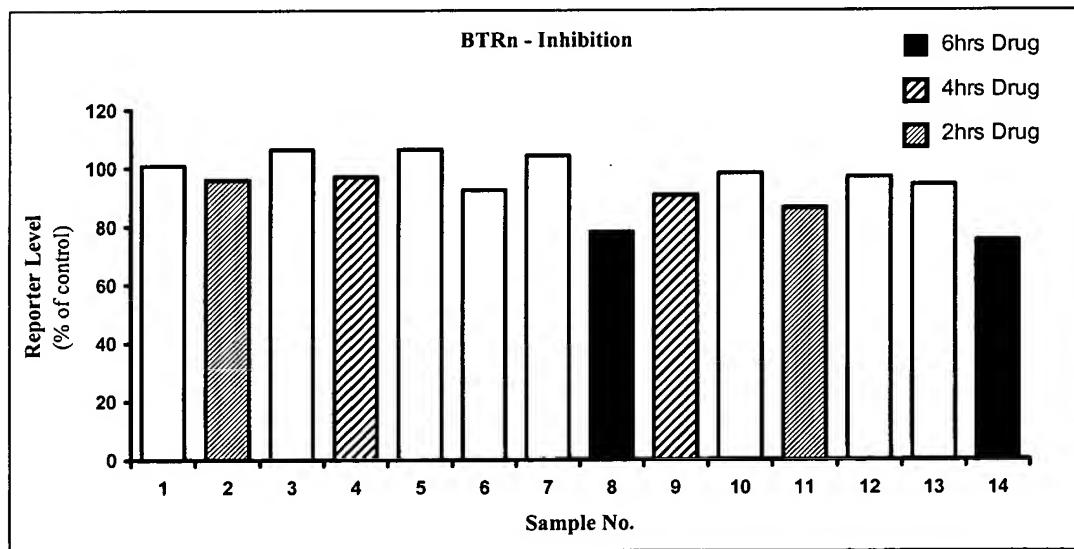


Figure 28 A

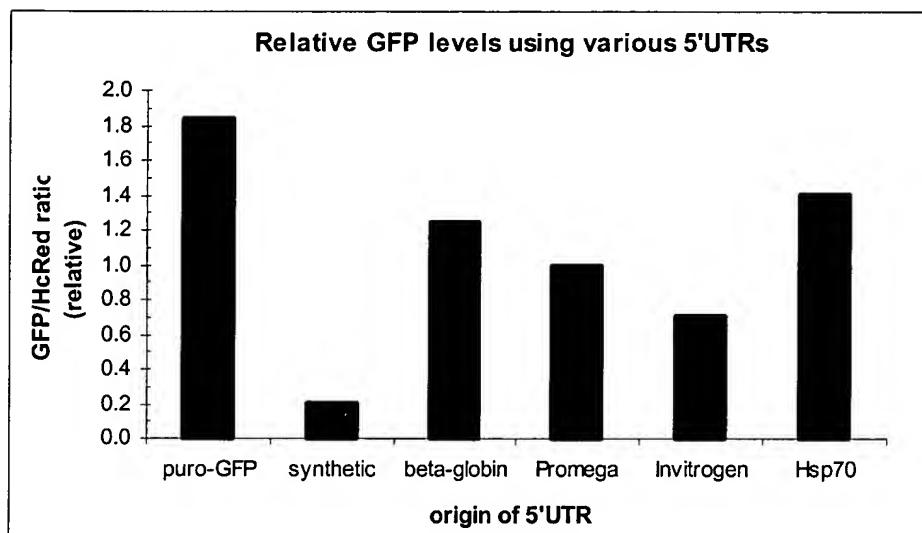


Figure 28 B

